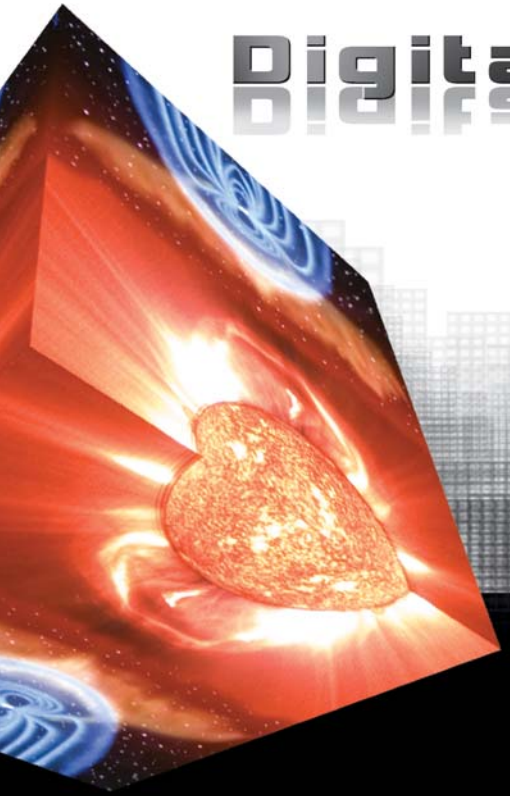
DigitalSpot 3000 DT™



ROBE®

DigitalSpot 3000 DT™

is the first
Digital Moving Light
on the market worldwide
offering the dual functionality
of **digital projection** and **LED-based Wash Light.**

A unique fusion of technologies plus numerous innovative functions delivers a highly flexible product suitable for virtually all market segments.
The **DigitalSpot 3000 DT´s** impressive price-to-features ratio makes digital technology more affordable than ever.

DigitalSpot 3000 DT™

… is a compact Digital Moving Light offering stunning new possibilities, never seen before in moving lights.

DigitalSpot 3000 DT

is based on **digiLED** technology
- a unique combination
of DLP and LED technologies
in one fixture.

Integrated
LED Module
including
48 x Luxeon
Rebel RGB+W LEDs.

The fixture
emits 3.000 ANSI lumens
from a single 200W
projection lamp
with an awesome contrast ratio
of 2,500:1.

The result is a perfect combination
of **amazing digital gobo effects**
and the projection
of **highly saturated colours**
provided by a single lighting fixture.

Images, Gobos and Videos are digitally produced and handled.

DigitalSpot 3000 DT features a full-sized high-end graphical computer – the embedded DigitalSpot 3000 DT Media Server Engine.

The DigitalSpot 3000 DT Media Server supports **MPEG1** and **MPEG2** video file formats as well as all common image files, like **JPG, BMP, PNG, TGA, GIF, PCX, PNM, XPM** and **LBM**.

240 media folders are available for factory content and own customized media content. Each folder consists of 255 media files.

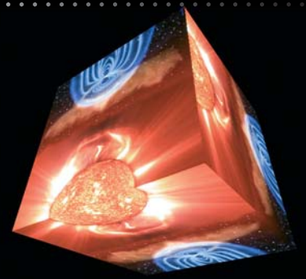
DigiGobo, DigiMovie

Single Projection

Using **DigitalSpot 3000 DT**´s powerful picture merging function, the output of up to 64 sources/fixtures can be merged together, creating **one large picture** or **movie**.

Picture Merging

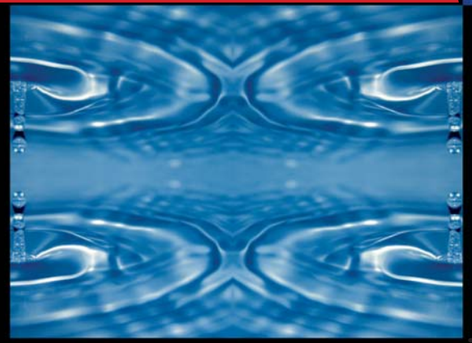
Arrays of a maximum of 64 fixtures are achievable in any possible configuration i.e. 1x2, 2x2, 2x3, 3x4, 4x4, 5x4, 6x3, 6x4, 8x2, 8x4, 8x8, 10x4, 12x4…



DigiEffects

The **DigitalSpot 3000 DT** offers hundreds of onboard effects.

Multiple effects can be combined together and applied to each layer.

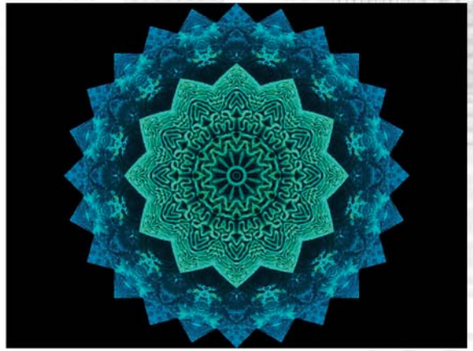


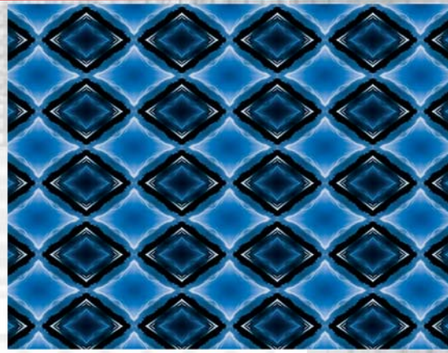
Popular effects include

tile,
mirror,
rotate,
zoom,
3D
and many more.

Kaleidoscope

The **Kaleidoscopic effects** allow the user to generate many new and appealing graphical effects from the current content. There are two modes for Kaleidoscopic effects - Static mode and Dynamic mode, which changes the image dynamically according to the preselected parameters.





Colour Modifying has never been easier! By applying colour filters, RGB conversions, **colour keying and masking effects** one can **achieve quick** and powerful colour transformations.

Colour Modifying

DigiMirroring

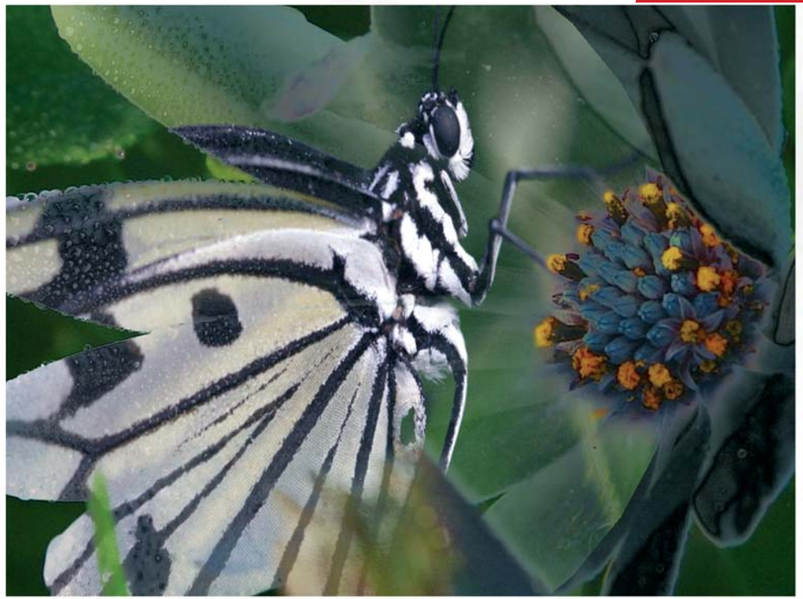
New mirroring mode for picture merging allows **connecting more than 64 fixtures**, thus allowing **large area projection** with **full resolution** per fixture on the whole surface.

DigitalSpot 3000 DT allows you to combine and work with 3 independent and individual Gobo Layers.

Transparency levels are proportionaly adjustable.

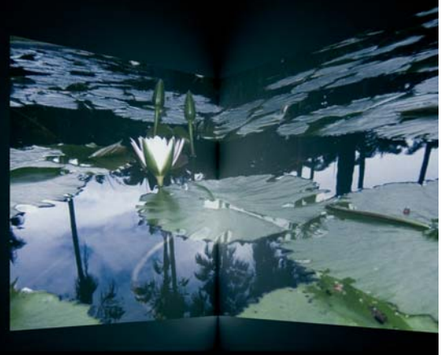
Various Layer Modes, like Additive Mode, Subtractive Mode, Multiplicative Mode and Copy Mode specify how media and **layers can be combined with each other**.

DigiLayer

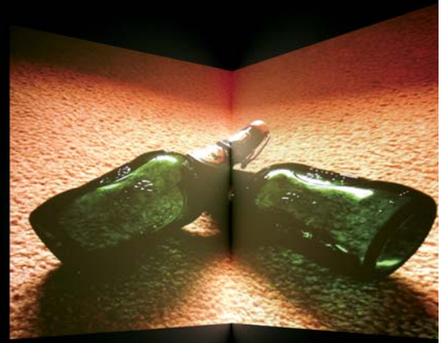


DigiCorners and curved surfaces can be neatly filled with **projected images** in both portrait and landscape orientations.

DigitalSpot 3000 DT offers all parameter controls for achieving the required results quickly and successfully.



DigiWarp

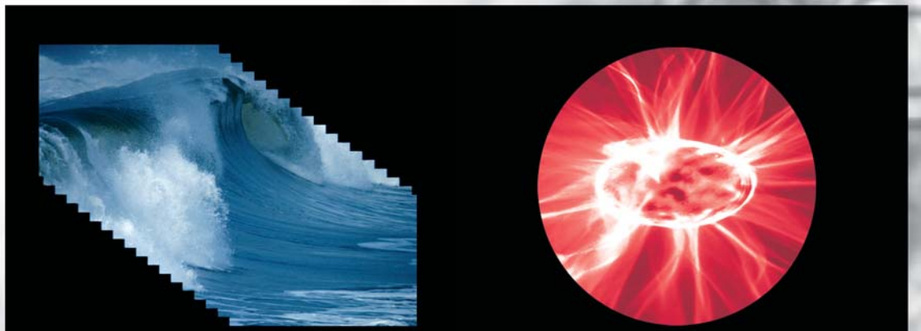


3D objects e.g. **spheres**, **cylinders** can be completely covered with projected images using this **dynamic function**.

Single or multiple fixtures can be used to achieve this effect.

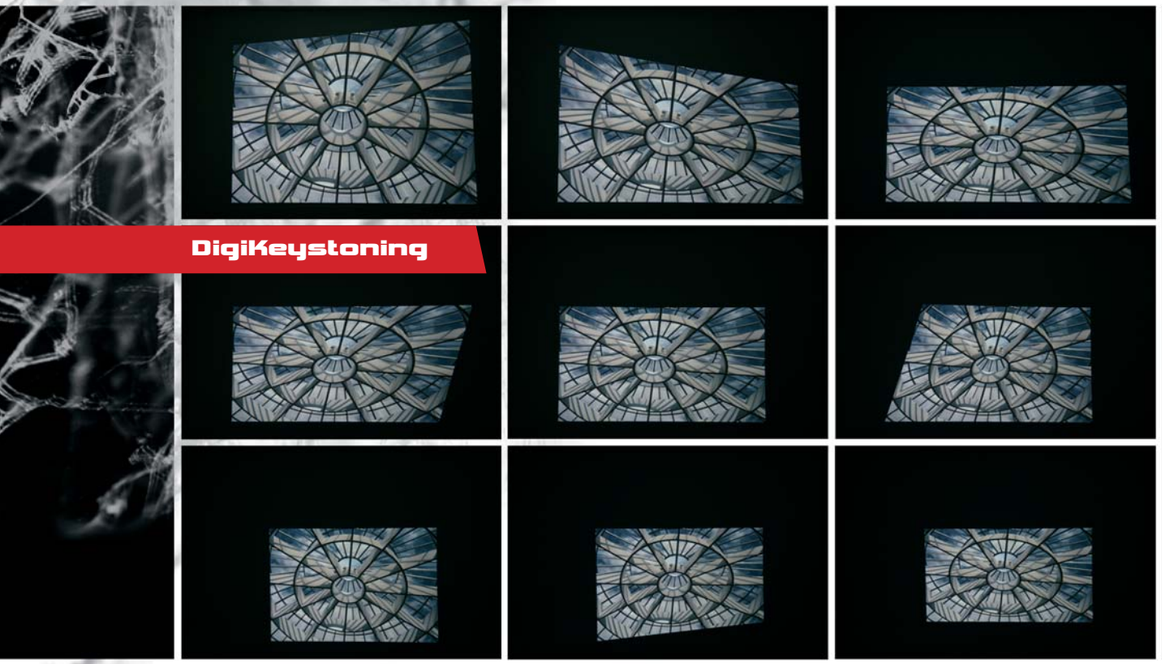
DigiWarp **functions are quickly achievable due to its 4 channel parameter layout.**

DigiIris is a flexible masking tool that **changes the shape** of the image or video. Iris effects can be applied on global layer and can also be covered by media content.



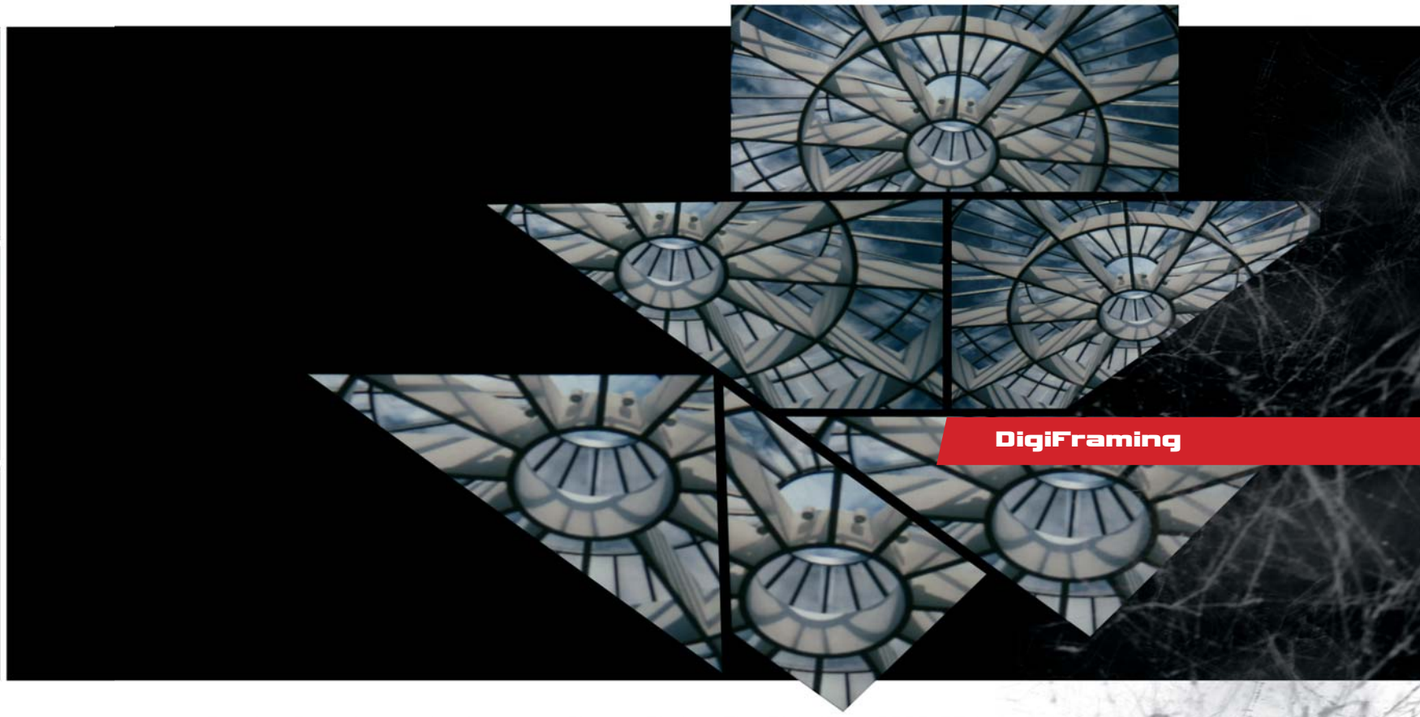
Over **150 different DigiIris** effects and masks are available.

DigiIris



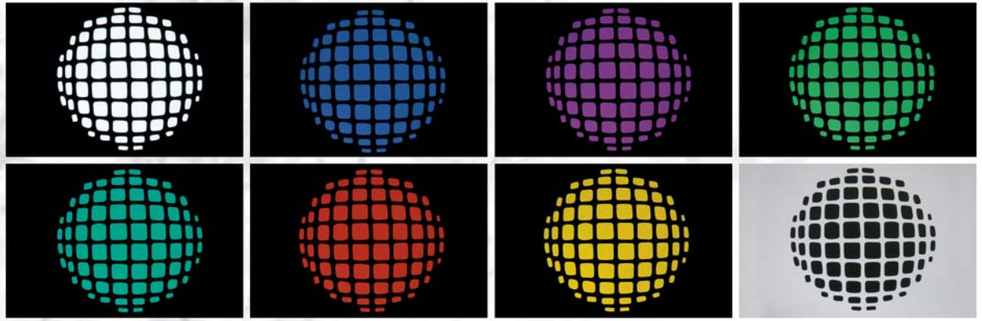
DigiKeystoning

DigitalSpot 3000 DT provides a full set of keystone parameters. Picture distortions created by extreme projection angles between the screen and lighting fixture are corrected by individually adjusting the four corners of the projected image in x and y directions. The keystone ratios in x and y direction are also adjustable, while the image keeps its original aspect ratio. Keystoning is always used in the DigiMerge function when soft-edging several images together to make one large one.



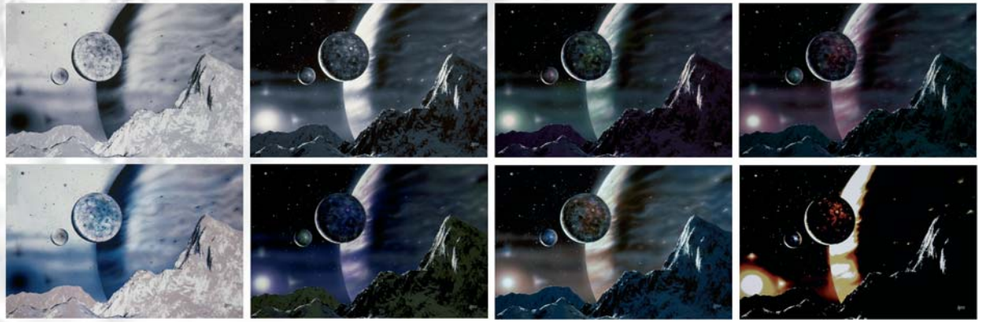
DigiFraming

Framing Controls are also known as Shutter Blades. The DigitalSpot 3000 DT has 4 individually controllable "Banner Blades", allowing the image to be masked in any configuration. This function is a common feature of any conventional theatrical profile spot fixture. The depth and angle of each of the 4 Banner Blades is adjustable. The whole Banner Blade system can be rotated - very helpful when a set piece or specific area needs illuminating with one image alone.



DigiColours

DigitalSpot 3000 DT provides you with great possibilities of **colour adjustments and modifications.**
Each of the 3 gobo layers offer parameters for individual media colour corrections.



A separate CTC (Colour Temperature Correction) Channel allows the media´s colour temperatures to be adjusted on the fly.

DigiLEDColours

Its separate LED Wash Module adds colour washes to your projected media with ideally matching intensity levels.

RGB + W modifiers allow for thousands of attractive and selectable colour wash tones.

Control, Inputs and Captures

DigitalSpot 3000 DT offers many features and functions that are remotely controllable via several interfaces - **DMX512** or **ArtNet protocol** offer control via up to 136 channels. Remote Device Managent (RDM) for automatized remote configuration is supported. Web based interface provides Media Content Management, Fixture Synchronization or Live Preview. FTP and USB2 interface allow content upload.

Content signal can also be received from external sources including cameras and computers. S-Video and Composite signals can either be sent directly to the dataprojector or can be routed to the internal Media Server Engine where the signal is processed and used in effects and transformations.

DigitalSpot 3000 DT is easy and user friendly to program. DigitalSpot 3000 DT works with DMX 512 protocol and TCP/IP protocols as ArtNet, FTP, HTTP and others. RDM (Remote Device Management) bidirectional communication protocol is also supported. DigitalSpot 3000 DTs will soon be compatible with MA-NET1 and MA-NET2 control protocols.

DMX Communication

Standard 3 pol and 5 pol connectors are available. DigitalSpot 3000 DT offers 136 channel Control. Controllers may split these channels into fixture profiles, like DS 3000 Main, Common, Layer 1, Layer 2 and Layer 3.

DigiCommunication

TCP/IP Network

TCP/IP Network is the best solution for Media Content Management and Fixture Synchronization, and is the recommended typology for linking, controlling and programming multiple fixtures across one network.

HTTP/FTP Communication

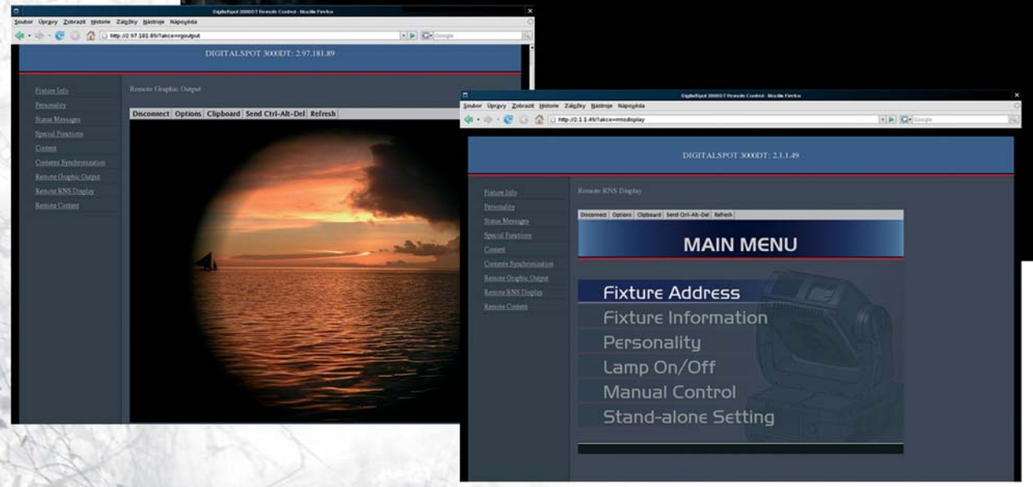
HTTP/FTP protocols are used to access the onboard web server allowing use of Media Content Management, RemoteContent Configuration and other functions.

Artnet Communication

The ArtNet protocol is used to control all DS 3000 DT functions.

DigiContent Management

No special software installation is required for **DigiContent Management**. Your favourite browser can be used to upload, download, preview or synchronize content of one or several fixtures at the same time via fast 1G network. **Unique Remote Menu screen** and **Remote Live output screen** allow a convenient distant access for checkups and configuration. With fast USB2 content upload support no laptop is needed to upload new custom content. Remote Device Managent (RDM) for automatized remote configuration is also supported.



Electrical Specification
- Power supply: Electronic auto-ranging
- Input voltage range: 100 - 240 VAC, 50/60 Hz
- Power consumption: 520 VA

Projector Specification
- Model: Benq MP624
- Light output: 3.000 ANSI lumens
- Lamp: 200W
- Rated lamp life: 3.000 hours Normal Mode (4.000 hours Eco Mode)
- Aspect ratio: 4:3
- Resolution: XGA (1.024 x 768)
- Contrast ratio: 2.500:1 (full on/full off)
- Display technology: DLP by Texas Instruments
- Display colours: Full 16.7 million colour palette

Environmental Specification
- Operating ambient temperature range: 0-40˚C
- Maximum housing temperature: 60˚C

Connection
- Video inputs:
  Data projector: 1 x S-Video (Mini Din 4-pin)
  1 x Composite video (RCA)
  Graphic Engine: 1 x S-Video (Mini Din 4-pin)
  1 x Composite video (RCA)
- DMX data in/out: Locking 3-pin and 5-pin XLR
- 2 x USB 2.0 connector (series A)
- ArtNet: RJ 45 (Neutrik Ethercon)
- AC power input: 1.5 m power cord without plug

Hardware
- Motherboard: MSI G31M-F
- Processor: Intel Core2 Duo E8400, 3.00 GHz, 1333 MHz FSB
- Memory: 1GB RAM
- Graphics card: nVidia 9500 GT
- Video capture card: AverMedia DVD EZMaker
- Hard disk: Seagate Momentus 160 GB
- Gigabit Ethernet

Operation System
- Linux OS

Graphic Engine
- 3 gobo layers for image and video control
- The graphic engine supports combined total of more than 60.000 original and user-created videos/gobos usable on all gobo layers
- Individual X and Y positioning and scaling for each gobo layer
- Rotating and indexing with continuous rotation for each gobo layer
- Gobo layer transparency for smooth gobo layer cross-fading
- 2 Effect Engines per Layer with more than one hundred Effects
- Huge amount of Default Images/Videos
- Import of User Images or Videos
- Layer media control modes (Copy, Add, Substract, Multi, Minimum and Maximum)
- Banner Effects creating action scripts for Images or Videos
- Digital Iris effect + 160 Masking effects
- Full Key-Stone correction
- Digital strobe effect
- CMY Image and Video Colour Mixing and CTC (Colour Temperature Correction)
- Adjustable playback speed, In frame and Out frame parameters for video playback
- Supported image file types: BMP, JPG, TGA, PNG, GIF, PCX, PNM, XPM and LBM (max 4.096 x 4.096 pixel)
- Supported video files: MPEG 1, MPEG 2
- Preview of projecting output through web interface
- Effect video synchronization
- Picture Merging effect in the field up to 64 segments in several different matrice comfiguration
- Projection onto cylindric/spheric surfaces and angular screens
- Video processing on all gobo layers from remote streaming video server
- 3 DMX Modes, max.136 DMX control channels
- Adjustable projector refresh rate to synchronize out put with videocamera´s processing

Integrated LEDWash Module
- Light source: 48 Luxeon Rebel LEDs (RGBW)
- Optical system: 25˚ beam angle
- RGBW colour mixing
- Adjustable strobe sequences
- Full range dimming

Control
- 5“ TFT LCD display & Robe Navigation System
- Web access for total control of fixture
- Media Content Synchronization in web interface
- Music-trigger

Electromechanical Effects
- Motorized focus
- Mechanical shutter

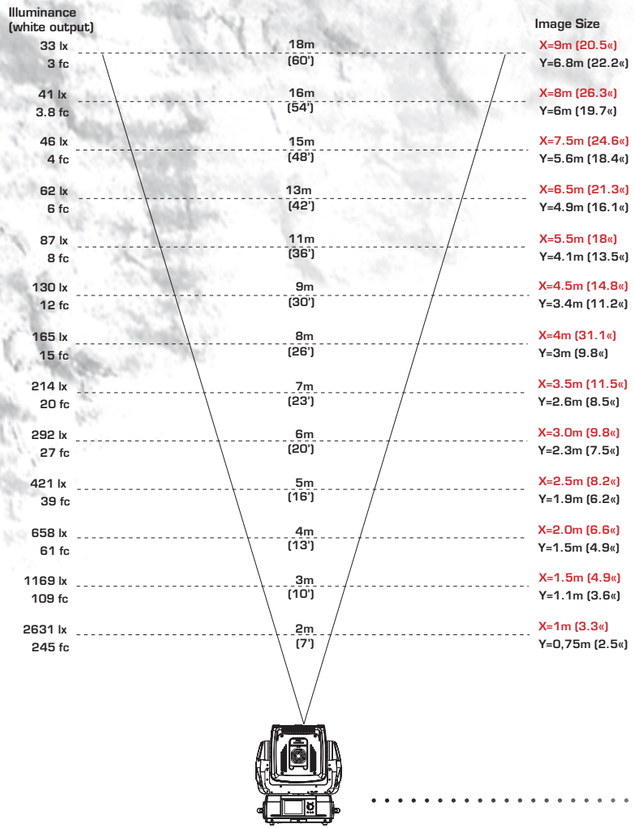
Pan/Tilt
- Pan movement range: 530˚
- Tilt movement range: 280˚
- 16 bit movement resolution
- Controllable speed of Pan/Tilt movement
- Automatic Pan/Tilt position correction
- Built-In Pan/Tilt macros

Rigging
- Mounting points: 2 pairs of ¼-turn locks
- 2x Omega bracket with ¼-turn quick locks
- Safety chain/cord attachment point

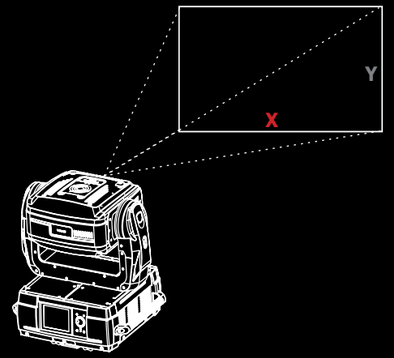
Mechanical Specification
- Height: 614 mm (24.2“)
- Width: 533 mm (21.0“)
- Depth: 431 mm (17.0“)
- Weight: 28 kg (61.7 lbs)

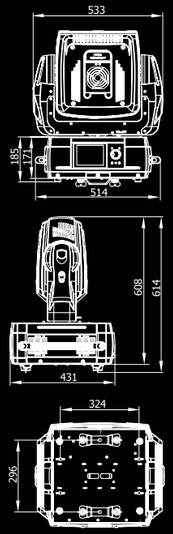
Patents pending

Technical Specification



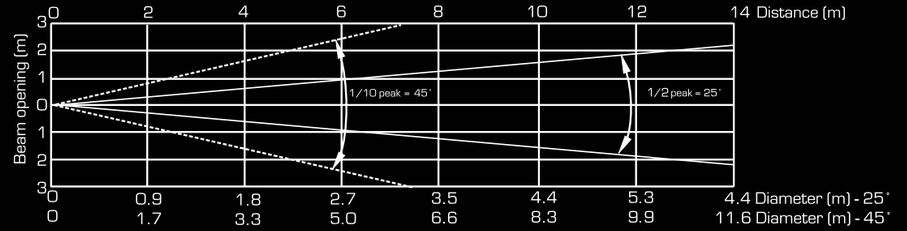
DigitalSpot 3000 DT/Image Size chart
Throw distance ratio 1.8 - 2.0 :1





Photometric Diagram - Digital Projector

Standard 25° Lens-Array



Distance (m)	2	4	6	8	10	12	14	
Red	281/26	70/7	31/3	18/2	11/1	8/0.7	6/0.5	Intensity (center) Lux/Foot-candles
Green	500/47	125/12	56/5	31/3	20/2	14/1.3	10/1	
Blue	25/2.3	6.3/0.6	2.8/0.3	1.6/0.1	1.0/0.1	0.7/0.1	0.5/0.05	
White	638/59	159/15	71/7	40/4	26/2	18/2	13/1.2	
R+G+B+W	988/92	247/23	110/10	62/6	40/4	27/3	20/2	

Photometric Diagram - RGBW LED Module

The Future is Digital ...

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